

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Herr, Daniel Joseph Christian

Serial Number: 10/604,747

Filed: August 14, 2003

Confirmation No. 1746

Group Art Unit: 2822

Examiner: Mary Wilczewski

For: DETERMINISTICALLY DOPED FIELD-EFFECT
DEVICES AND METHODS OF MAKING SAME

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.56 AND 37 C.F.R. § 1.97**

It is respectfully requested that the document(s) listed on the attached Form PTO/SB/08A be considered by the Patent and Trademark Office in the above-referenced application and made of record therein. Full text copies of the relevant documents are enclosed.

Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement. 37 CFR § 1.97(e)(1).

Respectfully submitted,

By:



Steven B. Phillips

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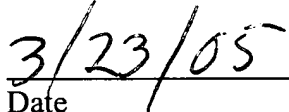
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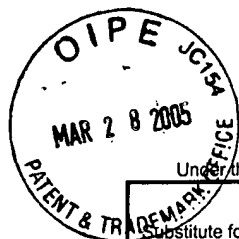
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Patricia L. Pontello



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/604,747
		Filing Date	August 14, 2003
		First Named Inventor	Herr, Daniel Joseph Christian
		Art Unit	2822
		Examiner Name	Mary A. Wilczewski
Sheet 1 of 1	Attorney Docket Number	361007-000025	

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	AA	WO 01/63674	08-30-01	NC State University		

NON PATENT LITERATURE DOCUMENTS		
Exam iner Initial	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	AB	Kane, V.E., "A Silicon-Based Nuclear Spin Quantum Computer", Nature, Macmillan Journals Ltd., Vol. 393, No. 6681 (1998) pgs 133-137
	AC	Obrien, J. L. et al., "Towards the Fabrication of Phosphorus Qubits for a Silicon Quantum Computer", Physical Review, B. Condensed Matter, American Institute of Physics, Vol. 64, No. 21, (March 18, 2001) pgs 161401-1
	AD	Vrijen, R. et al., "Electron-spin-resonance Transistors for Quantum Computing in Silicon-Germanium Heterostructures", Physical Review A (Atomic, Molecular, And Optical Physics) APS Through AIP USA, Vol. 62, No. 1, (June 13, 2000) pgs 012306/1 - 10
	AE	Kane, B.E. et al., "Single-Spin Measurement Using Single-Electron Transistors to Prove Two-Electron Systems", Physical Review, B. Condensed Matter, American Institute of Physics, Vol. 61, no. 4 (January 15, 2000) pgs. 2961-2972
	AF	Shen, T-C et al., "Ultradense phosphorous Delta Layeres Grown Intro Silicon From <formula><roman>PH/roman><inf>3</inf></formula>molecular Precursors", Applied Physics Letters, American Institute of Physics, Vol. 80, No. 9 (March 4, 2002) pgs. 1580-1582
	AG	Jamieson, D.N. et al., "A Role for Ion Implantation in Quantum Computing", Nuclear Instruments & Methods in Physics Research, Selection - B: Beam Interactions with Materials and Atoms, Vol. 175-177, (April 2004) pgs 7-22
	AH	Semiconductor Research Corporation, International Search Report, PCT/US03/26560, March 10, 2005

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.